

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/627,952
Source: JFWO
Date Processed by STIC: 07/26/2005

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 07/26/2005

PATENT APPLICATION: US/10/627,952

TIME: 09:49:42

Input Set : N:\Crf3\RULE60\10627952.raw

Output Set: N:\CRF4\07262005\J627952.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:

- 2 (i) APPLICANT: Dong, Jin-Tang; Barrett,
3 J. Carl; Lamb, Patricia W.; Isaacs, John T.
- 4 (ii) TITLE OF INVENTION: DIAGNOSTIC METHODS AND
5 GENE THERAPY USING REAGENTS DERIVED FROM THE
6 HUMAN METASTASIS SUPPRESSOR GENE KAI1
- 7 (iii) NUMBER OF SEQUENCES: 20
- 8 (iv) CORRESPONDENCE ADDRESS:
9 (A) ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
10 (B) STREET: 345 PARK AVENUE
11 (C) CITY: NEW YORK
12 (D) STATE: NEW YORK
13 (E) COUNTRY: USA
14 (F) ZIP: 10154
- 15 (v) COMPUTER READABLE FORM:
16 (A) MEDIUM TYPE: FLOPPY DISK
17 (B) COMPUTER: IBM PC COMPATIBLE
18 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
19 (D) SOFTWARE: MICROSOFT WORD 97
- 20 (vi) CURRENT APPLICATION DATA:
C--> 21 (A) APPLICATION NUMBER: US/10/627,952
C--> 22 (B) FILING DATE: 24-Jul-2003
- 23 (vii) PRIOR APPLICATION DATA:
W--> 24 (A) APPLICATION NUMBER: US/09/795,380
25 (B) FILING DATE: 27-Feb-2001
W--> 26 (A) APPLICATION NUMBER: 09/232,507
27 (B) FILING DATE:
- 28 (viii) ATTORNEY/AGENT INFORMATION:
29 (A) NAME: RICHARD W. BORK
30 (B) REGISTRATION NUMBER: 36,459
31 (C) REFERENCE/DOCKET NUMBER: 2026-4172US1
- 32 (ix) TELECOMMUNICATION INFORMATION:
33 (A) TELEPHONE: (212) 758-4800
34 (B) TELEFAX: (212) 751-6849
35 (C) TELEX: 421792
- 36 (2) INFORMATION FOR SEQ ID NO: 1:
37 (i) SEQUENCE CHARACTERISTICS:
38 (A) LENGTH: 20 base pairs
39 (B) TYPE: nucleic acid
40 (C) STRANDEDNESS: single
41 (D) TOPOLOGY: linear
42 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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43      AGAAGATCAA GTTGAAGAGG                                20
45 (2)  INFORMATION FOR SEQ ID NO: 2:
46      (i) SEQUENCE CHARACTERISTICS:
47          (A) LENGTH: 20 base pairs
48          (B) TYPE: nucleic acid
49          (C) STRANDEDNESS: single
50          (D) TOPOLOGY: linear
51      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
52      GGGACCTCAT TTCCTAGCTG                                20
54 (2)  INFORMATION FOR SEQ ID NO: 3:
55      (i) SEQUENCE CHARACTERISTICS:
56          (A) LENGTH: 19 base pairs
57          (B) TYPE: nucleic acid
58          (C) STRANDEDNESS: single
59          (D) TOPOLOGY: linear
60      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
61      ATGAAACTGC TCTTGTCGG                                19
63 (2)  INFORMATION FOR SEQ ID NO: 4:
64      (i) SEQUENCE CHARACTERISTICS:
65          (A) LENGTH: 20 base pairs
66          (B) TYPE: nucleic acid
67          (C) STRANDEDNESS: single
68          (D) TOPOLOGY: linear
69      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
70      TCAGCTCTTG GCTCCCCATT                                20
72 (2)  INFORMATION FOR SEQ ID NO: 5:
73      (i) SEQUENCE CHARACTERISTICS:
74          (A) LENGTH: 21 base pairs
75          (B) TYPE: nucleic acid
76          (C) STRANDEDNESS: single
77          (D) TOPOLOGY: linear
78      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
79      TGGGCACGGG TTTCAGGAAA T                                21
81 (2)  INFORMATION FOR SEQ ID NO: 6:
82      (i) SEQUENCE CHARACTERISTICS:
83          (A) LENGTH: 20 base pairs
84          (B) TYPE: nucleic acid
85          (C) STRANDEDNESS: single
86          (D) TOPOLOGY: linear
87      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
88      TGCAGAGAGC CCCAAATGCA                                20
90 (2)  INFORMATION FOR SEQ ID NO: 7:
91      (i) SEQUENCE CHARACTERISTICS:
92          (A) LENGTH: 20 base pairs
93          (B) TYPE: nucleic acid
94          (C) STRANDEDNESS: single
95          (D) TOPOLOGY: linear
96      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
97      AGGGTGAGCC GTGAGCACAA                                20

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99 (2) INFORMATION FOR SEQ ID NO: 8:
100     (i) SEQUENCE CHARACTERISTICS:
101         (A) LENGTH: 20 base pairs
102         (B) TYPE: nucleic acid
103         (C) STRANDEDNESS: single
104         (D) TOPOLOGY: linear
105     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
106     TGCTGAGAGT ACCCAGATGC                                     20
108 (2) INFORMATION FOR SEQ ID NO: 9:
109     (i) SEQUENCE CHARACTERISTICS:
110         (A) LENGTH: 19 base pairs
111         (B) TYPE: nucleic acid
112         (C) STRANDEDNESS: single
113         (D) TOPOLOGY: linear
114     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
115     GATGGCCACA CCCACGCCC                                     19
117 (2) INFORMATION FOR SEQ ID NO: 10:
118     (i) SEQUENCE CHARACTERISTICS:
119         (A) LENGTH: 20 base pairs
120         (B) TYPE: nucleic acid
121         (C) STRANDEDNESS: single
122         (D) TOPOLOGY: linear
123     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
124     TGCATGGAGA AGGTGCAGGC                                     20
126 (2) INFORMATION FOR SEQ ID NO: 11:
127     (i) SEQUENCE CHARACTERISTICS:
128         (A) LENGTH: 21 base pairs
129         (B) TYPE: nucleic acid
130         (C) STRANDEDNESS: single
131         (D) TOPOLOGY: linear
132     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
133     CCTCTTGCCC ACCCTGACTGA                                     21
135 (2) INFORMATION FOR SEQ ID NO: 12:
136     (i) SEQUENCE CHARACTERISTICS:
137         (A) LENGTH: 20 base pairs
138         (B) TYPE: nucleic acid
139         (C) STRANDEDNESS: single
140         (D) TOPOLOGY: linear
141     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
142     TTCACACCAT TCTCCTGCCT                                     20
144 (2) INFORMATION FOR SEQ ID NO: 13:
145     (i) SEQUENCE CHARACTERISTICS:
146         (A) LENGTH: 21 base pairs
147         (B) TYPE: nucleic acid
148         (C) STRANDEDNESS: single
149         (D) TOPOLOGY: linear
150     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
151     AGTCCTCCCT GCTGCTGTGT G                                     21
153 (2) INFORMATION FOR SEQ ID NO: 14:

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154      (i) SEQUENCE CHARACTERISTICS:
155          (A) LENGTH: 21 base pairs
156          (B) TYPE: nucleic acid
157          (C) STRANDEDNESS: single
158          (D) TOPOLOGY: linear
159      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
160          TCAGTCAGGG TGGGCAAGAG G                               21
162 (2) INFORMATION FOR SEQ ID NO: 15:
163      (i) SEQUENCE CHARACTERISTICS:
164          (A) LENGTH: 22 base pairs
165          (B) TYPE: nucleic acid
166          (C) STRANDEDNESS: single
167          (D) TOPOLOGY: linear
168      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
169          GAGGAGCACC CCGTGCTGCT GA22
171 (2) INFORMATION FOR SEQ ID NO: 16:
172      (i) SEQUENCE CHARACTERISTICS:
173          (A) LENGTH: 33 base pairs
174          (B) TYPE: nucleic acid
175          (C) STRANDEDNESS: single
176          (D) TOPOLOGY: linear
177      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
178          CTAGAAGCAT TTGCGGTGGA CGATGGAGGG GCC33
180 (2) INFORMATION FOR SEQ ID NO: 17:
181      (i) SEQUENCE CHARACTERISTICS:
182          (A) LENGTH: 24 base pairs
183          (B) TYPE: nucleic acid
184          (C) STRANDEDNESS: single
185          (D) TOPOLOGY: linear
186      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
187          TTGTAACCAA CTGGGACGAT ATGG24
189 (2) INFORMATION FOR SEQ ID NO: 18:
190      (i) SEQUENCE CHARACTERISTICS:
191          (A) LENGTH: 23 base pairs
192          (B) TYPE: nucleic acid
193          (C) STRANDEDNESS: single
194          (D) TOPOLOGY: linear
195      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
196          GTCTTGATCT TCATGGTGCT AGG23
198 (2) INFORMATION FOR SEQ ID NO: 19:
199      (i) SEQUENCE CHARACTERISTICS:
200          (A) LENGTH: 1624 base pairs
201          (B) TYPE: nucleic acid
202          (C) STRANDEDNESS: single
203          (D) TOPOLOGY: linear
204      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
205          CCGACTGAGG CACGAGCGGG TGACGCTGGG CCTGCAGCGC           40
206          GGAGCAGAAA GCAGAACCCG CAGAGTCCTC CCTGCTGCTG           80
207          TGTGGACGAC ACGTGGGCAC AGGCAGAAGT GGGCCCTGTG          120

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208	ACCAGCTGCA CTGGTTTCGT GGAAGGAAGC TCCAGGACTG	160
209	GCGGGATGGG CTCAGCCTGT ATCAAAAGTCA CCAAATACTT	200
210	TCTCTTCCTC TTCAACTTGA TCTTCTTTAT CCTGGGCGCA	240
211	GTGATCCTGG GCTTCGGGGT GTGGATCCTG GCCGACAAGA	280
212	GCAGTTTCAT CTCTGTCCTG CAAACCTCCT CCAGCTCGCT	320
213	TAGGATGGGG GCCTATGTCT TCATCGGCGT GGGGGCAGTC	360
214	ACTATGCTCA TGGGCTTCCT GGGCTGCATC GGCGCCGTCA	400
215	ACGAGGTCCG CTGCCTGCTG GGGCTGTACT TTGCTTTCCT	440
216	GCTCCTGATC TCATTGCCC AGGTGACGGC CGGGGCCCTC	480
217	TTCTACTTCA ACATGGGCAA GCTGAAGCAG GAGATGGGCG	520
218	GCATCGTGAC TGAGCTCATT CGAGACTACA ACAGCAGTCG	560
219	CGAGGACAGC CTGCAGGATG CCTGGGACTA CGTGCAGGCT	600
220	CAGGTGAAGT GCTGCGGCTG GGTGAGCTTC TACAACTGGA	640
221	CAGACAACGC TGAGCTCATG AATCGCCCTG AGGTCACCTA	680
222	CCCCTGTTCC TGCGAAGTCA AGGGGGAAGA GGACAACAGC	720
223	CTTTCTGTGA GGAAGGGCTT CTGCGAGGCC CCCGGCAACA	760
224	GGACCCAGAG TGGCAACCAC CCTGAGGACT GGCTGTGTA	800
225	CCAGGAGGGC TGCATGGAGA AGGTGCAGGC GTGGCTGCAG	840
226	GAGAACCTGG GCATCATCCT CGGCGTGGGC GTGGGTGTGG	880
227	CCATCATCGA GCTCCTGGGG ATGGTCCTGT CCATCTGCTT	920
228	GTGCCGGCAC GTCCATTCCG AAGACTACAG CAAGGTCCCC	960
229	AAGTACTGAG GCAGCTGCTA TCCCCATCTC CCTGCCTGGC	1000
230	CCCCAACCTC AGGGCTCCCA GGGGTCTCCC TGGCTCCCTC	1040
231	CTCCAGGCCCT GCCTCCCACT TCACTGCGAA GACCTCTTG	1080
232	CCCACCCTGA CTGAAAGTAG GGGGCTTTCT GGGGCCTAGC	1120
233	GATCTCTCCT GGCCTATCCG CTGCCAGCCT TGAGCCCTGG	1160
234	CTGTTCTGTG GTTCCTCTGC TCACCGCCCA TCAGGGTTCT	1200
235	CTTATCAACT CAGAGAAAAA TGCTCCCCAC AGCGTCCCTG	1240
236	GCGCAGGTGG GCTGGACTTC TACCTGCCCT CAAGGGTGTG	1280
237	TATATTGTAT AGGGGCAACT GTATGAAAAA TTGGGGAGGA	1320
238	GGGGGCCGGG CGCGGTGCTC ACGCTGTAA TCCCAGCACT	1360
239	TTGGGAGGCC GAGGCGGGTG GATCACGAGG TCAGGAGATC	1400
240	GAGACCATCC TGGCTAACAT GGTGAAACCC CGTCTCTACT	1440
241	AAAAATACAA AAAAAATTTA GCCGGGCGCG GTGGCGGGCA	1480
242	CCTGTAGTCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT	1520
243	GGTGTGAACC CGGGAGCGGA GGTGTCAGTG AGCTGAGATC	1560
244	GTGCTACTGC ACTCCAGCCT GGGGGACAGA AAGAGACTCC	1600
245	GTCTCAAAAA AAAAAAAAAA AAAA	1624
247	(2) INFORMATION FOR SEQ ID NO: 20:	
248	(i) SEQUENCE CHARACTERISTICS:	
249	(A) LENGTH: 267 amino acids	
250	(B) TYPE: amino acid	
251	(C) STRANDEDNESS: unknown	
252	(D) TOPOLOGY: unknown	
253	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:	
254	Met Gly Ser Ala Cys Ile Lys Val Thr Lys Tyr Phe	
255	1 5 10	
256	Leu Phe Leu Phe Asn Leu Ile Phe Phe Ile Leu Gly	
257	15 20	

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/627,952

DATE: 07/26/2005

TIME: 09:49:43

Input Set : N:\Crf3\RULE60\10627952.raw

Output Set: N:\CRF4\07262005\J627952.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:26 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1) (vii)